

CLAIMS

1. A torsion bar for application in belt winders for safety belts, comprising a bar having on end sections thereof drive and/or locking elements for positive connection to respective devices, the drive and/or locking elements (2, 3) embodied at the end sections for achieving different torques at constant sizes of the drive and/or locking elements (2, 3) and varying diameters of the torsion bar (1) is produced in one piece in a cold forming impact extrusion process from a non-ferrous metal.
2. A torsion bar according to claim 1, wherein the drive and/or locking elements (2, 3) at the ends thereof have equal or larger exterior dimensions than the torsion bar (1) itself.
3. A torsion bar according to claim 1, wherein the torsion bar (1) is made from aluminum in a cold forming process.
4. A torsion bar according to claim 2, wherein the aluminum has a 99.5 % by Vol. purity.
5. A torsion bar according to claim 1, wherein the torsion bar (1) is cylindrical or prismatic.
6. A torsion bar according to claim 1, wherein the drive and/or locking elements (2, 3) are provided as toothed wheels or as catching elements provided with flattenings.
7. A torsion bar according to claim 1, wherein a transfer section (4) is provided having a conical section or a flute between the drive and/or the locking elements (2, 3).